In The Claims

Current listing of Claims:

Claims 2,3,5-9,11,13-19,21-24 (Canceled)

Claim 1. (previously amended) A fuel cell system, comprising:

hydrogen fuel;

a CO removal system employing non-Faradaic electrochemical modification of catalyst activity, the system including -

(a) a working electrode having a catalyst providing rapid dynamic response of the removal system over a temperature range of 0 to 800 degrees Celsius,

(b) a counter electrode,

(c) an electrolyte between the working electrode and counter electrode,

(d) a power source; and

a fuel cell stack.

Claim 4. (previously amended) The fuel cell system of claim 1 wherein the catalyst is a layer of material formed on the working electrode.

Claim 10. (previously amended) The fuel cell system of claim 1 wherein the power source is a DC battery.

Claim 12. (previously amended) The fuel cell system of claim 1, wherein the working electrode and the counter electrode are coupled in series with the power source, such that current flows between the working electrode and the counter electrode.

Claim 20. (previously amended) The fuel cell system of claim 1 wherein the catalyst is selected from the group consisting of -

(a) Cu/ZnO
(b) Cu/CuO
(c) ABO3
(d) zeolite.

Claim 25. (previously added) A fuel cell system, comprising:
a source of a hydrogen fuel;
a CO removal system using non-Faradaic electrochemical modification of catalyst activity, said removal system including a working electrode, an electrolyte, a counter electrode, and a power source, wherein said working electrode includes a catalyst selected from the group consisting of -

(a) Cu/ZnO
(b) Cu/CuO
(c) ABO3
(d) zeolite; and,

a fuel stack.

Claim 26. (currently amended) The fuel cell system of claim 25 wherein said removal system provides dynamic response over a temperature range from 0 to ~~850~~ 800 degrees Celsius.

Claim 27. (previously added) The fuel cell system of claim 25 wherein the catalyst is a layer of material formed on the working electrode.

Claim 28. (previously added) The fuel cell system of claim 25, wherein the power source is a DC battery.

Claim 29. (previously added) The fuel cell system of claim 25, wherein the working electrode and the counter electrode are coupled in series with the power source, such that current flows between the working electrode and the counter electrode.